

**In the claims:**

Please cancel claims 27-34, 68-75 and 77-82 without prejudice or disclaimer. Also, please add claims 83-87. Following is the status of the all of the claims in this application.

1-82. (Canceled)

83. (New) A quality control method for assessing the equivalency of a test batch of an herbal composition to a standardized batch of the same or substantially same herbal composition, wherein the herbal composition comprises multiple chemical components derived from one or more whole plants or plant parts, said quality control method comprising:

- a. selecting a preparation of an herbal composition to be the standardized batch;
- b. characterizing an Herbal BioResponse (HBR) Array for the standardized batch by
  - i. exposing a characterized biosystem to the standardized batch, determining a differential gene expression profile as compared with an untreated control of the characterized biosystem, and obtaining an array of gene expression changes for the standardized batch; and
  - ii. storing the array of gene expression changes obtained in step b(i) into a Standardized HBR Array;
- c. characterizing an Herbal BioResponse (HBR) Array for the test batch by
  - i. exposing the characterized biosystem used in step b(i) to the test batch, determining the differential gene expression profile compared with an untreated control of the characterized biosystem, and obtaining an array of gene expression changes for the test batch; and
  - ii. storing the array of gene expression changes obtained in c(i) into a Test HBR Array;
- d. assessing a quantitative similarity value between the Standardized HBR Array and the Test HBR Array by comparing gene expression intensities and gene expression patterns; and

utilizing the similarity value obtained in step d to assess the equivalency of the test batch and the standardized batch for the purpose of quality control.

84. (New) The method of claim 83, wherein the characterized biosystem is selected from the group consisting of cells, tissues, organs, whole organisms and *in vitro* assays.

85. (New) The method of claim 83, wherein the gene expression takes place translationally.

86. (New) The method of claim 83, wherein the gene expression takes place transcriptionally.

87. (New) The method of claim 83, wherein the quantitative similarity value is calculated using normalized values of the Standardized HBR Array and the Test HBR Array.